

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/526,062
Source: PU710
Date Processed by STIC: 3/9/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,062

TIME: 15:16:31

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\03092005\J526062.raw

4 <110> APPLICANT: Biemans, Ralph
 5 Denoel, Philippe
 6 Feron, Christiane
 7 Goraj, Karine
 8 Kortekaas, Jeroen
 9 Poolman, Jan
 10 Tommassen, Jan
 11 Weynants, Vincent
 14 <120> TITLE OF INVENTION: Mutant Protein and Refolding Method
 17 <130> FILE REFERENCE: VB60394
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/526,062
 20 <141> CURRENT FILING DATE: 2005-02-28
 22 <150> PRIOR APPLICATION NUMBER: PCT/EP03/009634
 23 <151> PRIOR FILING DATE: 2003-08-28
 25 <150> PRIOR APPLICATION NUMBER: GB 0220199.4
 26 <151> PRIOR FILING DATE: 2002-08-30
 28 <160> NUMBER OF SEQ ID NOS: 31
 30 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 28
 34 <212> TYPE: PRT
 35 <213> ORGANISM: Neisseria meningitidis
 37 <400> SEQUENCE: 1
 38 Thr Thr Glu Glu Lys Asn Gly Gln Lys Val Asp Lys Pro Met Glu Gln
 39 1 5 10 15
 40 Gln Met Lys Asp Arg Ala Asp Glu Asp Thr Val His
 41 20 25
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 24
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Neisseria meningitidis
 49 <400> SEQUENCE: 2
 50 Gln His Arg Gly Ile Arg Thr Val Arg Glu Glu Phe Thr Val Gly Asp
 51 1 5 10 15
 52 Lys Ser Ser Arg Ile Asn Ile Asp
 53 20
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 2307
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Neisseria meningitidis
 61 <400> SEQUENCE: 3
 62 tggttaataataataaaata attattaatt atttttctta tcctgccaaa tcttaacggt 60
 63 ttggatttac ttcccttcac actcaagagg acgattgaat gaatacccca ttgttccgtc 120

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64 tcagcctgct ctcgctcaca cttgcggcag gttttgccca cgcggcagaa aataatgcc 180
65 aggtcgtact ggataaccgtt actgtaaaaag gcgaccgcca aggcagcaaa atccgtacca 240
66 acatcggttac gctgcaacaa aaagacgaaa gcaccgcaac cgatatgcgc gaactcttaa 300
67 aagaagagcc gtccatcgat ttgcggcggcg gcaacggcac gtcccaattc ctgacgctgc 360
68 gcggcatggg tcagaactct gtcgacatca aggtggacaa cgcctattcc gacagccaaa 420
69 tcctttacca ccaaggcaga tttattgtcg atcccgtttt ggtaaagtc gtttccgtac 480
70 aaaaaggcgc gggttccgcc tctgccggtg tcggcgcgac caacggcgcg atcatcgcca 540
71 aaaccgtcga tgcccaagac ctgctcaaa gcttggataa aaactggggc gtgcgcctca 600
72 acagcggctt tgccagcaac gaaggcgtaa gctacggcgc aagcgtattc ggaaaagagg 660
73 gcaacttcga cggcttggtt tcttacaacc gcaacgatga aaaagattac gaagccggca 720
74 aaggtttccg caatgtcaac ggcggcacaaa ccgtaccgta cagcgcgctg gacaaacgca 780
75 gctacctcgc caaaatcgga acaaccttcg gcgacgacga ccaccgcatc gtgttgagcc 840
76 acatgaaaga ccaacaccgg ggcatccgca ctgtgcgtga agaatttacc gtcggcgaca 900
77 aaagtccacg gataaatatt gaccgccaag cccctgctta ccgcgaaact acccaatcca 960
78 acaccaactt ggcgtacacg ggtaaaaaacc tgggctttgt cgaaaaactg gatgccaacg 1020
79 cctatgtgtt ggaaaaagaa cgctattccg ccgatgacag cggcaccggc tacgcaggca 1080
80 atgtaaaagg ccccaaccat acccgaatca cactcgtggg tgcgaacttc aacttcgaca 1140
81 gccgccttgc cgaacaaacc ctgttgaaat acggtatcaa ctaccgccat caggaaatca 1200
82 aaccgcaagc atttttgaac tcgaaattct ccatcccgac gacagaagag aaaaacggtc 1260
83 aaaaagtcga taaaccgatg gaacaacaaa tgaaagaccg tgcagatgaa gacactgttc 1320
84 acgcctacaa actttccaac ccgacaaaaa ccgataccgg cgtatatgtt gaagccattc 1380
85 acgacatcgg cgatttcacg ctgaccggcg ggctgcgtta cgaccgcttc aaggtgaaaa 1440
86 cccatgacgg caaaaccgtt tcaagcagca accttaacct gagtttcggt gtgatttggc 1500
87 agccgcacga aacttgagc ttcagcgcga gccacaacta cgccagccgc agcccgcgcc 1560
88 tgtatgacgc gctgcaaacc caggttaaac gcggcatcat ctcgattgcc gacggcacia 1620
89 aagccgaacg cgcgcgcaat accgaaatcg gcttcaacta caacgacggc acgtttgccg 1680
90 caaacggcag ctacttcttg cagaccatca aagacgcgct tgccaatccg caaaaccgcc 1740
91 acgactctgt cgccgtccgt gaagccgtca atgccgggta catcaaaaac cacggttacg 1800
92 aattgggcgc gtcctaccgc accggcggcc tgactgccaa agtcggcgct agccacagca 1860
93 aaccgcgctt ttacgatacg cacaagaca agctgttgag cgcgaaatct gaatttggcg 1920
94 cacaagtcgg ccgcaacttg acggcctccc ttgcctaccg cttccaaaat ccgaatctgg 1980
95 aaatcggctg gcgcggccgt tatgttcaaa aagctacggg ttcgatattg gcggcaggtc 2040
96 aaaaagaccg caaaggcaac ttggaaaacg ttgtacgcaa aggtttcggg gtgaacgatg 2100
97 tcttcgcaa ctggaaccg ctgggcaaag acacgctcaa tgtcaatctt tcggttaaca 2160
98 acgtgttcaa caagttctac tatccgcaca gccaacgctg gaccaatacc ctgccgggcg 2220
99 tgggacgtga tgtacgcttg ggcgtgaact acaagttcta aaacgcacat cccgaaaaaa 2280
100 tgccgtctga aagcctttca gacggca 2307

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102 <210> SEQ ID NO: 4

103 <211> LENGTH: 720

104 <212> TYPE: PRT

105 <213> ORGANISM: Neisseria meningitidis

107 <400> SEQUENCE: 4

108 Met Asn Thr Pro Leu Phe Arg Leu Ser Leu Leu Ser Leu Thr Leu Ala

109 1 5 10 15

110 Ala Gly Phe Ala His Ala Ala Glu Asn Asn Ala Lys Val Val Leu Asp

111 20 25 30

112 Thr Val Thr Val Lys Gly Asp Arg Gln Gly Ser Lys Ile Arg Thr Asn

113 35 40 45

114 Ile Val Thr Leu Gln Gln Lys Asp Glu Ser Thr Ala Thr Asp Met Arg

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Input Set : A:\seqlist.txt

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164 His Asp Gly Lys Thr Val Ser Ser Ser Asn Leu Asn Pro Ser Phe Gly
165      450      455      460
166 Val Ile Trp Gln Pro His Glu His Trp Ser Phe Ser Ala Ser His Asn
167 465      470      475      480
168 Tyr Ala Ser Arg Ser Pro Arg Leu Tyr Asp Ala Leu Gln Thr His Gly
169      485      490      495
170 Lys Arg Gly Ile Ser Ile Ala Asp Gly Thr Lys Ala Glu Arg Ala
171      500      505      510
172 Arg Asn Thr Glu Ile Gly Phe Asn Tyr Asn Asp Gly Thr Phe Ala Ala
173      515      520      525
174 Asn Gly Ser Tyr Phe Trp Gln Thr Ile Lys Asp Ala Leu Ala Asn Pro
175      530      535      540
176 Gln Asn Arg His Asp Ser Val Ala Val Arg Glu Ala Val Asn Ala Gly
177 545      550      555      560
178 Tyr Ile Lys Asn His Gly Tyr Glu Leu Gly Ala Ser Tyr Arg Thr Gly
179      565      570      575
180 Gly Leu Thr Ala Lys Val Gly Val Ser His Ser Lys Pro Arg Phe Tyr
181      580      585      590
182 Asp Thr His Lys Asp Lys Leu Leu Ser Ala Asn Pro Glu Phe Gly Ala
183      595      600      605
184 Gln Val Gly Arg Thr Trp Thr Ala Ser Leu Ala Tyr Arg Phe Gln Asn
185      610      615      620
186 Pro Asn Leu Glu Ile Gly Trp Arg Gly Arg Tyr Val Gln Lys Ala Thr
187 625      630      635      640
188 Gly Ser Ile Leu Ala Ala Gly Gln Lys Asp Arg Lys Gly Asn Leu Glu
189      645      650      655
190 Asn Val Val Arg Lys Gly Phe Gly Val Asn Asp Val Phe Ala Asn Trp
191      660      665      670
192 Lys Pro Leu Gly Lys Asp Thr Leu Asn Val Asn Leu Ser Val Asn Asn
193      675      680      685
194 Val Phe Asn Lys Phe Tyr Tyr Pro His Ser Gln Arg Trp Thr Asn Thr
195      690      695      700
196 Leu Pro Gly Val Gly Arg Asp Val Arg Leu Gly Val Asn Tyr Lys Phe
197 705      710      715      720
200 <210> SEQ ID NO: 5
201 <211> LENGTH: 2600
202 <212> TYPE: DNA
203 <213> ORGANISM: Neisseria gonorrhoeae
205 <400> SEQUENCE: 5
206 aaaccggtac ggcgttgccc cgccttagct caaagagaac gattccctaa ggtgctgaag 60
207 caccgagtga atcggttccg tactatttgt actgtctgcg gcttcgccgc cttgtcctga 120
208 tttttggttag tccacatata catttccgac aaaacctgtc aacaaaaaac aacgcttcgc 180
209 aaataaaaaac gataatcagc tttacacaac cccccccgc taatataaac aaaaataatt 240
210 attattattt tttcttatcc tgccaaacct taacggtttg gcttaacttc cttcatata 300
211 ctcaaaagga cgaacaaatg aacgccccgt ttttcgcct cagcctgctc tcgctcacac 360
212 ttgccgccgg ctttgccac gcggcagaaa ataatgcaa tgtcgcttg gataccgtta 420
213 ccgtaaaagg cgaccgcaa ggcagcaaaa tccgtaccaa catcgttacg cttcaacaaa 480
214 aagacgaaag caccgcaacc gatatgcgcg aactcttaaa agaagagccc tccatcgatt 540
215 tcggcgccgg caacggcacg tcccaattcc tgacgctgcg cggtatgggt cagaactctg 600

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216 tcgacatcaa ggtggacaac gcctattccg acagccaaat cctttaccac caaggcagat 660
217 ttattgtcga tcccgccttg gttaaagtcg tttccgtaca gaaaggcgcg ggttccgcct 720
218 ctgccggtat cggcgcgacc aacggcgcgga tcatcgccaa aaccgctcgat gcccaagacc 780
219 tgctcaaagg cttggataaa aactggggcg tgcgcctcaa cagcggtctt gccggcaaca 840
220 acggcgcaag ctacggcgca agcgtattcg gaaaagaggg caacttcgac ggtttgttct 900
221 cttacaaccg caacgatgaa aaagattacg aagccggcaa aggtttccgc aatgacaacg 960
222 gcggcaaaac cgtaccgtac agcgcgctgg acaaacgcag ctacctcgcc aaaatcggaa 1020
223 caaccttcgg cgacggcgac caccgcatcg tgttgagcca tatgaaagac caacaccggg 1080
224 gcatccgcac tgtgcgtgaa gagtttgccg tcagcgaaaa aaattcacgg ataactatta 1140
225 aacgccaaag cccatcctac cgcgaaacca ctcaatccaa caccaacttg gcgtacaccg 1200
226 gcaaagattt gggctttgtc gaaaaactgg atgccaacgc ctatgtgttg gaaaagaaac 1260
227 gctattccgc cgatgacaaa gataacggct acgcaggcaa tgtaaaaggc cccaaccata 1320
228 cccgaatcgc cactcggagt atgaacttca acttcgacag ccgccttgcc gaacaaaccc 1380
229 tgttgaaata cggcatcaac taccgccatc aggaaatcaa accgcaagcg tttttgaact 1440
230 cgggaatttg aataaaagat aaagaaaaag caactaatga agagaaaaag aagaaccgtg 1500
231 aaaatgaaaa aattgccaaa gcctaccgcc tgaccaaccc gaccaaacc gataccggcg 1560
232 cgtatatcga agccattcac gagattgacg gctttaccct gaccggcggg ctgcgttacg 1620
233 accgcttcaa ggtgaaaacc caccgacgga aaaccgtttc aagcagcagc ctcaaccgga 1680
234 gtttcggcgt gatttggcag ccgcgcgaac actggagctt cagcgcgagc cacaactacg 1740
235 ccggccgcag cccgcgcctg tatgacgctc tgcaaaccga cggcaagcgc ggcatcatct 1800
236 cgattgccga cggcacgaaa gccgaacgcg cgcgcaatac cgaaatcggc ttcaactaca 1860
237 acgacggcac gtttgccgca aacggcagct acttccggca gaccatcaaa gacgcgcttg 1920
238 ccaatccgca aaaccgccac gactccgtcg ccgtccgcga agccgtcaac gccggctaca 1980
239 tcaaaaaaca cggttacgaa ttgggcgcgt cctaccgcac cggcggcctg accgccaaag 2040
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241 cgaaccctga atttggcgca caagtcggcc gcacttggac ggcctccctt gcctaccgct 2160
242 tcaaaaaacc gaatctggaa atcggctggc gcggtcgtta tgttcaaaaa gccgtgggtt 2220
243 cgatattggc ggcaggtcaa aaagaccgcg acggcaaatt ggaaaacggt gtacgccaaag 2280
244 gtttcggtgt gaacgatgtc ttcgccaaact ggaaaccgct gggcaaagac acgctcaatg 2340
245 ttaatctttc ggtaacaac gtgttcgaca agttctacta tccgcacagc caacgctgga 2400
246 ccaataccct gccgggcgtg ggacgtgatg tacgcctggg cgtgaactac aagttctaaa 2460
247 acgcacatcc cgaaaaaatg ccgtctgaaa gcctttcaga cggcatctgt cctgataatt 2520
248 tgatatatag tggattaaca aaaaccggtg cggcgttgcc ccgccttagc tcaaagggaa 2580
249 cgattcccta aggtgctgaa
250                                     2600
251 <210> SEQ ID NO: 6
252 <211> LENGTH: 713
253 <212> TYPE: PRT
254 <213> ORGANISM: Neisseria gonorrhoeae
255 <400> SEQUENCE: 6
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257 Met Asn Ala Pro Phe Phe Arg Leu Ser Leu Leu Ser Leu Thr Leu Ala
258 1 5 10 15
259 Ala Gly Phe Ala His Ala Ala Glu Asn Asn Ala Asn Val Ala Leu Asp
260 20 25 30
261 Thr Val Thr Val Lys Gly Asp Arg Gln Gly Ser Lys Ile Arg Thr Asn
262 35 40 45
263 Ile Val Thr Leu Gln Gln Lys Asp Glu Ser Thr Ala Thr Asp Met Arg
264 50 55 60
265 Glu Leu Leu Lys Glu Glu Pro Ser Ile Asp Phe Gly Gly Gly Asn Gly
266 65 70 75 80

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; Xaa Pos. 2,5,9

Seq#:22; Xaa Pos. 2,5,9

VERIFICATION SUMMARY

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L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:752 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:756 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:769 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:773 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0